

1. Need (Form SE - Student Enrollment Projections)

Student Demand:

i. Estimated enrollment each year for the first five years for full-time and part-time students (Please complete Form SE.)

<i>Year</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>
<i>Full-time</i>	<u>4</u>	<u>4</u>	<u>6</u>	<u>8</u>	<u>10</u>
<i>Part-time</i>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<i>Total</i>	<u>4</u>	<u>4</u>	<u>6</u>	<u>8</u>	<u>10</u>

ii. Will enrollment be capped in the future?

There are no current plans to cap enrollment in the future.

A. Market Demand:

. National, state, regional, or local assessment of labor need for citizens with these skills
According to JRCERT, the Joint Review Committee on Education in Radiologic Technology, there are currently only 55 accredited bachelor's degree programs in Radiology/Radiologic Sciences in the United States. Only three accredited bachelor's programs are listed for Missouri: University of Missouri - Columbia and Avila University offer programs in Radiography while University of Missouri - St. Louis offers a program in Radiation Therapy.

B. Societal Need:

i. General needs which are not directly related to employment
According to the Bureau of Labor Statistics and Missouri's Economic Research and Information Center, an estimated 17% increase in job openings is expected from 2008 to 2018. Combining these estimates, a shortage of B.S. certified Radiologists is expected in the near future. Northwest Missouri State University has an opportunity to provide a fourth location to pursue a Bachelors degree in Radiologic Sciences in the State of Missouri as a completion program in the Kansas City area.

C. Methodology used to determine "B" and "C" above.

JRCERT, 2010. List of programs from www.jrcert.org show 55 bachelors degrees, 422 associates degrees, and 231 certificate only programs in the US.

Bureau of Labor Statistics, 2008. www.bls.gov/oco/ocos105.htm shows needed increase.

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Missouri's Economic Research and Information Center , 2011.
(www.missourieconomy.org/occupations/occ_proj.stm) shows statewide and regional occupation totals, trends, and growth.

2. Duplication and Collaboration: (Form CL – Collaborative Programs)

If similar programs currently exist in Missouri, what makes the proposed program necessary and/or distinct from the others at public institutions, area vocational technical schools, and private career schools?

This would provide the Kansas City region with a program for this area of need.

Does delivery of the program involve a collaborative effort with any external institution or organization?

Yes (If yes, please complete Form CL.)

Form CL – Collaborative Programs

Sponsoring Institutions: Northwest Missouri State University
 St. Luke's School of Radiologic Technology

Degree program: B.S. Radiologic Sciences

Length of agreement: open-ended

1. Which institution(s) will have degree-granting authority?

Northwest Missouri State University

2. Which institution(s) will have the authority for faculty hiring, course assignment, evaluation, and reappointment decisions?

Both at respective institutions

3. What agreements exist to ensure that faculty from all participating institutions will be involved in decisions about the curriculum, admissions standards, exit requirements?

A memorandum of agreement will ensure that standard practices apply regarding the curriculum and other matters which involve our faculty governance.

4. Which institution(s) will be responsible for academic and student-support services, e.g., registration, advising, library, academic assistance, financial aid, etc.?

Both at respective institutions

5. What agreements exist to ensure that the academic calendars of the participating institutions have been aligned as needed?

N/A

This is not an issue because our students will complete their coursework at Northwest before entering St. Lukes to complete their program.

2. Duplication and Collaboration: (Form CL – Collaborative Programs)

6. In addition to the information provided by each participating institution regarding Financial Projections (Form FP), please address the following items:

A. How will tuition rates be determined if they differ among the institutions?

Each institution is independent

B. Has a formal agreement been developed regarding cost-sharing policies? If yes, please include it as part of the proposal. If no, please summarize the current understanding between all parties and the plans for developing a formal agreement.

No. As a completion program, there is no need for a financial agreement.

C. What arrangements, if any, have been made for exchange of money between participating institutions?

none

7. What commitments have been made by all participants to evaluate the program systematically?

Following our accreditation practices we will evaluate the program in five years as part of our standard process.

8. If one institution wishes to discontinue the program, what agreements exist for terminating the offering?

This is covered with a clause in the memorandum of agreement.

3. Program Structure: (Form PS - Program Structure)

PROGRAM STRUCTURE

A. Total credits required for graduation: 129

B. Residency requirements, if any: 0

C. General education: Total credits: 42

Courses (specific courses OR distribution area and credits):

Directed General Education Courses - as required in accordance with certification and acceptance of affiliated medical center

Bio 04 1021103 General Biology and Laboratory

 OR Bio 04-106/107 Introductory Biology 4cr.

Phys 25 110/111 General Physics I and Laboratory 4cr.

Phil 39 276 Introduction to Ethics (Biomedical) 3cr.

Art 13-102 Art Appreciation OR 3cr.

Mus 19 201 Enjoyment of Music 3cr.

Soc 35-101 General Sociology 3cr.

Math 17-118 College Algebra 3cr.

Total Directed General Education (20 cr.)

Remaining General Education Requirements (22cr.) (Total Gen-ed 42 hours)

D. Major requirements: Total credits: 87

Institutional Requirements 6

Required Courses at Northwest Missouri State University.

Bio 04-104 Medical Terminology (3 cr.)

Bio 04-140 General Microbiology (4 cr.)

Bio 04-236 Human Anatomy for Allied Health Sciences (4 cr.)

Bio 04-238 Human Physiology for Allied Health Sciences (4 cr.)

Chem 24-114/115 General Chemistry I and Laboratory (4 cr.)

Radiologic Sciences (Courses to be completed at Hospital's School of Radiologic Technology)

RAD49-301 Radiographic Anatomy & Physiology (301) 2 cr.

RAD49-302 Clinical Education (301) 1 cr.

RAD49-303 Medical Imaging (301) 2 cr.

3. Program Structure: (Form PS - Program Structure)

- RAD49-304 Radiographic Positioning & Procedures (301) 2 cr.
- RAD49-305 Radiographic Positioning & Procedures Lab (301) 1 cr.
- RAD49-306- Clinical Education (302) 2 cr.
- RAD49-307 Introduction to Radiologic Science (302) 2 cr.
- RAD49-308 Literature Review (302) 1 cr.
- RAD49-309 Radiographic Physics (302) 2 cr.
- RAD49-310 Radiographic Positioning & Procedures (302) 2 cr.
- RAD49-311 Radiographic Positioning & Procedures Lab (302) 1 cr.
- RAD49-312 Radiographic Anatomy & Physiology (302) 2 cr.
- RAD49-313 Clinical Education (303) 2 cr.
- RAD49-314 Image Evaluation (303) 1 cr.
- RAD49-315 Medical Imaging (303) 2 cr.
- RAD49-316 Radiographic Physics (303) 2 cr.
- RAD49-317 Radiographic Anatomy & Physiology (303) 2 cr.
- RAD49-318 Radiographic Positioning & Procedures (303) 2 cr.
- RAD49-319 Radiographic Positioning & Procedures Lab (303) 1 cr.
- RAD49-401 Clinical Education (404) 4 cr.
- RAD49-402 Clinical Education (405) 2 cr.
- RAD49-403 Medical Imaging (405) 2 cr.
- RAD49-404 Pathology (405) 2 cr.
- RAD49-405 Radiation Biology & Radiation Protection (405) 2 cr.
- RAD49-406 Radiographic Positioning & Procedures (405) 2 cr.
- RAD49-407 Radiographic Anatomy & Physiology (405) 2 cr.
- RAD49-408 Clinical Education (406) 2 cr.
- RAD49-409 Correctec (406) 2 cr.
- RAD49-410 Imaging Modalities (406) 2 cr.
- RAD49-411 Pathology (406) 2 cr.
- RAD49-412 Quality Assurance (406) 2 cr.
- RAD49-413 Radiography Curriculum Review (406) 2 cr.
- RAD49-414 Cross Sectional Anatomy (406) 2 cr.

E. Free elective credits: 0 (Sum of C, D, and E should equal A.)

F. Requirements for thesis, internship or other capstone experience:
none

3. Program Structure: (Form PS - Program Structure)

G. Any unique features such as interdepartmental cooperation:

none

5. Program Characteristics and Performance Goals: (Form PG).

PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Institution Name: Northwest Missouri State University

Program Name: B.S. degree in Radiologic Sciences

Date: August 2011

(Although all of the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below. Quantification of performance goals should be included wherever possible.)

Student Preparation

- Any special admissions procedures or student qualifications required for this program which exceed regular university admissions, standards, e.g., ACT score, completion of core curriculum, portfolio, personal interview, etc. Please note if no special preparation will be required.

Entrance Requirements to St. Luke's R.T. certificate program

- Characteristics of a specific population to be served, if applicable.

none

Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.

Radiographic Technologist (RT) certificate + M.S.

- Estimated percentage of credit hours that will be assigned to full time faculty. Please use the term "full time faculty" (and not FTE) in your descriptions here.

95%

- Expectations for professional activities, special student contact, teaching/learning innovation.

none

Enrollment Projections

- Student FTE majoring in program by the end of five years.

10

- Percent of full time and part time enrollment by the end of five years.

100% full-time enrollment

5. Program Characteristics and Performance Goals: (Form PG).

Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.
0 at three years, 2-4 at five years
- Special skills specific to the program.
ability to sit for the National Certification exam
- Proportion of students who will achieve licensing, certification, or registration.
100%
- Performance on national and/or local assessments, e.g., percent of students scoring above the 50th percentile on normed tests; percent of students achieving minimal cut-scores on criterion-referenced tests. Include expected results on assessments of general education and on exit assessments in a particular discipline as well as the name of any nationally recognized assessments used.
65% score above the 50th percentile on the national academic performance exam (General Education. More than 50% to score above the 50th percentile on MFAT exam.
- Placement rates in related fields, in other fields, unemployed.
94% placement rate
- Transfer rates, continuous study.
0%

6. Program Accreditation

- Institutional plans for accreditation, if applicable, including accrediting agency and timeline. If there are no plans to seek specialized accreditation, please provide reasons.
Program is not seeking specialized accreditation but will evaluate the program using institutional measures in compliance with the accreditation of the institution.

Alumni and Employer Survey

- Expected satisfaction rates for alumni, including timing and method of surveys
94% per five year average of assessment with Career Services.
- Expected satisfaction rates for employers, including timing and method of surveys
100%

7. Institutional Characteristics: Please describe succinctly why your institution is particularly well equipped or well suited to support the proposed program.

Reputation of science curriculum and high placement rate show the institution's commitment to the region and occupation. The Department of Biological Sciences has the curriculum in place to offer these courses without additional local faculty resources and is a good fit to collaborate on this 2+2 completion program with St. Luke's School of Radiologic Technology in Kansas City.

5. Program Characteristics and Performance Goals: (Form PG).

8. Any Other Relevant Information:

See agreements and evidence of accreditation, attached.